

## Re: Makes no sense to me?

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*Source:*

<http://www.tech-archive.net/Archive/Win2000/microsoft.public.win2000.networking/2005-08/msg00226.html>

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- *From:* Joe <Joe@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
  - *Date:* Thu, 11 Aug 2005 20:27:11 -0700
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Ok.

I read the post and I know it will work but there is no way I can make the third network. (at least in my view)

This whole fiasco is because of My ISP and two mailservers. One primary and one backup. This is why i am trying to do this.I need to share the mailboxes internally.

thank you Steve  
Joe

"Steve Duff [MVP]" wrote:

- > Your post is a little confusing. A NIC by itself cannot "join two routers". But
- > not understanding never stopped me before :-)
- >
- > What I think you want is to have two NICs in EACH server.
- >
- > One NIC on each server connects to a corresponding router and nothing else.
- > These are your 192.168.0.\* and 192.168.1.\* networks.
- >
- > The other NIC on each server and all the workstations all lconnect to a common,
- > shared switch defined on a third IP network (say, 192.168.3.\*)
- >
- > Next, enable RRAS (routing services) on the servers. Enable "NAT" routing
- > (this is required because the routers won't have any idea how to reach the
- > 192.168.3.\* network). Define the external side of NAT as the NIC network
- > that connects to the router.
- >
- > Set the default gateway IP on the workstations (via DHCP or manually) to the
- > 192.168.3.x address of the server you want to handle that workstation's traffic.
- > The default gateway on each server is of course the IP of its corresponding router.
- >
- > Presto. Everything on the LAN can now talk to everything else. (The routers are not able
- > to see the 192.168.3.\* network, but that should not be a problem as the server
- > NAT takes care of the translation for return traffic.)

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>  
> There are simpler ways to achieve this. If your routers support defining static networks  
> on an interface (Linksys calls it "advanced routing", Cisco calls it "secondary networks",  
> etc.) you can create a configuration where the routers themselves route the traffic in and out  
> on the LAN side, doing what is sometimes called 'routing on a stick.' This eliminates  
> the need for routing on the servers.  
>  
> Another way to do this is to simply interconnect everything to one switch, and open  
> up the network masks so that devices see everything as part of one LAN. Again, this  
> is tricky to spell out without knowing a lot of details, and DHCP can be a problem.  
>  
> It is really hard for me to take you down one of these roads without knowing a whole  
> lot more about what you have and what you're trying to do. What I described above is a  
> sort-of general solution that should handle most cases gracefully.  
>  
> Best of luck.  
>  
> Steve Duff, MCSE, MVP  
> Ergodic Systems, Inc.  
>  
>  
> "Joe" <Joe@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message  
> [news:496C3025-8610-4EA3-BE5D-B27E50A80F9C@xxxxxxxxxxxxxxxxxxxx](mailto:news:496C3025-8610-4EA3-BE5D-B27E50A80F9C@xxxxxxxxxxxxxxxxxxxx)  
>> Hello, Please bear with me?  
>>  
>> I am in a situation in which I am forced at this time to be by my current  
>> ISP (this will soon change) Here goes:  
>>  
>> I have two routers and each is assigned a static Public IP by my ISP.  
>> I have the two routers because MY ISP at this time cannot assign multiple  
>> IP's to a single router/component.  
>>  
>> I have two servers and I need them to have two different public IPs which  
>> they have. In order to have the servers networked internally I had to add  
>> another NIC to one of the servers and connect one to Router A and one to  
>> Router B.  
>> I set the IP at 192.168.1.1 for router A and this is the interface in the  
>> browser to access the admin. Router B has the default of 192.168.0.1 to  
>> access the admin.  
>>  
>> My problem is from one server I can access all interfaces in the browser.  
>> Going in the opposite direction I can not access but one Interface. However I  
>> can share files. I cannot however get this server to join the DC and I think  
>> it may have to do with this problem. My Xp machines access the DC no problem  
>> and join. The server will not.  
>>  
>> Please note that the XP machines are not connected any differently than this  
>> server that cannot join the Domain.  
>>  
>> The second NIC in the DC has a IP structure of  
>> 192.168.0.5

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>> 255.255.255.0  
>> NO GTWY  
>> NO DNS  
>> This is the Nic that is connecting the two routers and ultimately the entire  
>> network.  
>> Any questions or suggestions I would really appreciate it. Sorry for the  
>> long explanation.  
>> Thanks  
>> Joe  
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• **References:**

- ◆ **Makes no sense to me?**  
    ◇ From: Joe
- ◆ **Re: Makes no sense to me?**  
    ◇ From: Steve Duff [MVP]

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